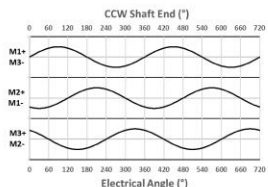
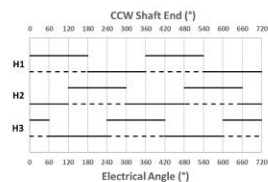




**MMP BL58-412F-48V GRA52-051**



| HALL LEADS |        |
|------------|--------|
| LEAD       | COLOR  |
| H1         | BLUE   |
| H2         | GREY   |
| H3         | VIOLET |
| VCC        | RED    |
| GND        | BLACK  |

| PIN | FUNCTION     | COLOR  |
|-----|--------------|--------|
| 1   | GROUND       | BROWN  |
| 2   | INDEX        | VIOLET |
| 3   | A CHANNEL    | BLUE   |
| 4   | +5 VDC POWER | ORANGE |
| 5   | B CHANNEL    | YELLOW |

DIMENSIONS ARE INCHES [MM] UNLESS OTHERWISE STATED

| PLANETARY GEARMOTOR OUTPUT PARAMETERS:     | VALUE     | UNITS       | TOLERANCE |
|--------------------------------------------|-----------|-------------|-----------|
| Gearhead Ratio (exact)                     | 50.89 : 1 |             |           |
| Gearhead Shaft Output Speed (at full-load) | 94        | RPM         | MAX       |
| Gearmotor Rated Continuous Torque          | 185       | In-Lbs      | MAX       |
| Gearmotor Rated Peak Torque                | 443++     | In-Lbs      | ----      |
| Gearhead Standard Backlash                 | 48        | Arc Minutes | MAX       |
| Gearhead Efficiency                        | 70%       | ----        | ----      |
| Output Shaft Radial Load Capacity          | 102       | Lbs         | MAX       |
| Output Shaft Axial Load Capacity           | 34        | Lbs         | MAX       |
| Gearmotor Total Weight                     | 5.7       | Lbs         | MAX       |

++ All Peak Torque values are dependent upon duty. Contact our sales office for details.

| DC MOTOR PERFORMANCE PARAMETERS: | VALUE | UNITS     | TOLERANCE |
|----------------------------------|-------|-----------|-----------|
| Rated DC Voltage                 | 48    | DC VOLTS  | ----      |
| Rated Continuous Current         | 8.4   | AMPERES   | ----      |
| No-Load Speed                    | 6234  | RPM       | MAX       |
| Rated Speed                      | 4797  | RPM       | +/- 15%   |
| Rated Continuous Power Out       | 294   | WATTS     | +/- 15%   |
| Rated Continuous Torque          | 83    | OZ-IN     | ----      |
| Peak Torque (motor only)         | 253   | OZ-IN     | ----      |
| No-Load Current                  | 0.45  | AMPERES   | MAX       |
| Back EMF Constant (Ke)           | 7.7   | V/KRPM    | +/- 10%   |
| Torque Constant (Kt )            | 10.4  | OZ-IN/AMP | +/- 10%   |
| DC Armature Resistance           | 1.32  | OHMS      | +/- 15%   |
| Armature Inductance              | 0.93  | mH        | +/- 15%   |
| Armature temperature             | 155   | DEG. C    | MAX       |

- ENCODER & BRAKE OPTIONS AVAILABLE – [FOLLOW THIS LINK FOR DETAILS](#)
- NEMA MOUNTING FLANGE OPTION AVAILABLE – [FOLLOW THIS LINK FOR DETAILS](#)

# MIDWEST MOTION PRODUCTS, INC.

## DESIGN, MANUFACTURING & DISTRIBUTION - MOTION CONTROL EQUIPMENT

**[www.midwestmotion.com](http://www.midwestmotion.com)**

**email: [sales@midwestmotion.com](mailto:sales@midwestmotion.com)**